SEARCH REQUEST, FORM Scientific and Technical Information Center - EIC2800
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Date 727 Serial # 10 728 43 Priority Application Date 25 5 6

Examiner #

Date 7270 Serial # 10 728, 437 Priority Application Date 12510
Your Name M. Lewis Examiner #
AU 2902 Phone 292-1838 Room 5430
In what format would you like your results? Paper is the default. PAPER DISK EMAIL  If submitting more than one search request form, please prioritize the searches in order of need.
Where have you searched so far on this case?  Circle: USPT DWPI EPO Abs JPO Abs IBM TDB  Other:
What relevant art have you found so far? Please attach citations or Information Disclosure Statements.
What types of references would you like? Please checkmark:  Primary Refs
Is this a "Fast & Focused Search" request? (Circle One) YES NO  A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic
and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <a href="http://uspto-a-pattr-2/siraapps/stic/npl/nplsearch.htm">http://uspto-a-pattr-2/siraapps/stic/npl/nplsearch.htm</a>
What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claim?
CMOS/Memory
Decreuse pital to provide
more substrate onea.
Problem, See Jaraprophe 2-4 Solution: " abstract
-
US 6631,085 6,784,107 6,841,813
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Searcher: Val Cim Structure (#) STN
Searcher: Phone: 2-8949 Bibliographic Dialog
Searcher: Phone: 2-8949 Bibliographic Dialog

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File 2:INSPEC 1898-2006/Jul W4 (c) 2006 Institution of Electrical Engineers

Set	Items	Description
S1	1234987	PITCH??? OR CENTER (1N) CENTER OR CRITICAL () DIMENSION? ?
		R MINIMUM () LINE? ? OR MINIMUM () SPACE? ? OR SPACING? ? OR
		ENSIT??? OR SIZE? ? OR DENSE
S2	548686	SUBSTRATE? ? OR LAMINA? ? OR WAFER? ? OR DIE OR ARRAY? ?
s3	1794229	LEVEL? ? OR STACK???? OR LAYER???? OR FILM? ? OR LAMINA? ?
		R INTERLAYER???? OR MULTILAYER???? OR MULTI () LAYER????
S4	1233844	
S5	3053842	INCREASED OR HIGHER OR HIGH OR MORE OR GREATER OR LARGER
S6	4577	
s7	112152	S1 (2N) S5
S8	17438	S7 AND S2
S9	10358	S8 AND S3
S10	3161	S9 AND S4
S11	261	S10 AND PITCH
S12	154178	S3 (2N) (ABOVE OR HIGH OR SECOND OR TOP OR OVERHEAD OR
		UPPER OR PINNACLE)
S13	5496	S12 AND S7
S14	1755	S13 AND S2
S15	514	S14 AND S4
S16	44	S15 AND PITCH
S18	125	S12 AND PITCH AND DENSITY
S19	78	S18 AND S2
S20	45	S19 NOT S17
S21	17	S20 AND PY=1997:2003



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Recent Search Queries		Results
<u>#1</u>	((pitch <and>substrate)<and>multilayer) <and> (pyr &gt;= 1998 <and> pyr &lt;= 2003)</and></and></and></and>	404
<u>#2</u>	((((pitch <and>substrate)<and>multilayer) <and> (pyr &gt;= 1998 <and> pyr &lt;= 2003))<and>(density<in>metadata))</in></and></and></and></and></and>	91
<u>#3</u>	((substrate <and>pitch)<and>stacked) <and> (pyr &gt;= 2000 <and> pyr &lt;= 2003)</and></and></and></and>	427
<u>#4</u>	((substrate <and>pitch)<and>stacked) <and> (pyr &gt;= 2000 <and> pyr &lt;= 2003)</and></and></and></and>	427
<u>#5</u>	((((substrate <and>pitch)<and>stacked) <and> (pyr &gt;= 2000 <and> pyr &lt;= 2003))<and>(density<in>metadata))</in></and></and></and></and></and>	81

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Fri, 4 Aug 2006, 3:00:28 PM EST

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## **Basic Search**

**Advanced Search Search Preferences** 

		•	
		multilayered AND ("device densities" OR "device densition Search	
		☑ Journal sources ☑ Preferred Web sources ☑ Other Web sources ☐ Exact phrase.	
		Searched for:: :All of the words:multilayered AND ("device densities" OR "device density")	
		Found:: :29 total   4 journal results   21 preferred web results   4 other web results	
		Sort by:: :relevance   date	•
_		Save checked results Email checked results Export checked results	Refine your search
	1.	Model for interrace formation and the resulting electrical properties for banding	using these keywor found in the results
		<u>strontium-titanate films on silicon</u> <b>A. H. Mueller / N. A. Suvorova / E. A. Irene / O. Auciello / J. A. Schultz</b> , <i>Journal of</i>	<u>calidad de</u>
		Applied Physics, Mar 2003	capacitor
			dielectric
		so as to increase the on-chip <b>device density</b> , the downward scaling for the gate dielectric layer thickness of below 2 nm for the field effect transistor is limited by	embargo
		Published journal article available from <b>SCIMION</b>	mass spectrom
			<u>materia</u>
		view all 2 results from Scitation similar results	penetrating radar
			<u>tamarack</u>
	۷.	technical digest4.PDF [PDF-116K] Jul 2001	time-of-flight
		Laboratoire de magnétisme de Bretagne, BP 809, 29285 Brest, France Introduction In	wolverine .
		magneto-optical (MO) recording technology, <b>multilayered</b> structures of rare-earth	Or refine using:
		transition metal alloys (RE-TM) are extensively investigated since magnetic coupling (exchange or	All of the words
		[http://www.minatec.com/minatec2001/IMST_technical-dige]	
		similar results	Refine
	3.	Determining the unfolding behaviors of beta barrel proteins by hydrogen exchange and mass spectroscopy	
		1971- Raza, Ashraf S.,, Jan 2003	
		Thesis (Ph. D.)University of Nebraska-Lincoln, 2003. Title from title screen. PDF of dissertation: xix, 393 p. : ill. (some col.). Sites viewed on Feb. 19, 2004. Includes	
		bibliographical references.	
		Full text thesis available via NDLTD	
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**4.** Essays on the workings and uses of futures markets

**1969- Bryant, Henry L.,**, Jan 2003

Thesis (Ph. D.)--Texas A&M University, 2003. "Major Subject: Agricultural Economics" Title from author supplied metadata. Includes bibliographical references.

Full text thesis available via NDLTD

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File 342:Derwent Patents Citation Indx 1978-05/200648 (c) 2006 The Thomson Corp.

S1 39 CT=(JP 2106968 OR US 5060045 OR US 20030053332 OR US 6631085 OR US 20030030074)

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File 347: JAPIO Dec 1976-2005/Dec(Updated 060404)
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File 350:Derwent WPIX 1963-2006/UD=200648

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Set	Items	Description
S1	68	S1:S11
S2	62	S1 AND PY=1990:2004
<b>S</b> 3	19	S1 AND (DENSE OR DENSIT???)
S4	24	S2 AND (STACK??? OR MULTI () LAYER?? OR LEVEL? ?)
S5	15	S4 NOT S3